

Exhibit 1

MatWeb.com, The Online Materials Database

PolyOne Geon® 87350 Vinyl Compound - Rigid (RPVC)

Subcategory: Polymer; Thermoplastic; Vinyl

Material Notes:

Description/Features:

- Exterior-Weatherable
- UL 94 V0
- UL 94 5VA

Applications:

- General Purpose

Processing Method:

- Extrusion-Sheet

PolyOne First Choice

Disclaimer: Note: The Cell Classification was determined using the notched Izod test with injection molded samples.

Information provided by PolyOne Corporation.

Physical Properties	Metric	English	Comments
Specific Gravity	1.44 g/cc	0.052 lb/in ³	ASTM D792
Mechanical Properties			
Hardness, Shore D	82.2	82.2	15 sec; ASTM D2240
Tensile Strength, Yield	43.4 MPa	6290 psi	Type 1 - Rigid, 0.2 in/min; ASTM D638
Tensile Modulus	2.48 GPa	360 ksi	Type 1 - Rigid, 0.2 in/min; ASTM D638

Flexural Modulus	0.0689 GPa	10 ksi	ASTM D790
Flexural Strength	2450 MPa	355000 psi	ASTM D790
Dart Drop, Total Energy	0.12 ft-lb/mil	0.12 ft-lb/mil	Procedure A, 0.125 in Conical Dart, 73°F (23°C); ASTM D4226
Dart Drop, Total Energy	0.24 ft-lb/mil	0.24 ft-lb/mil	Procedure B, 0.125 in Conical Dart, 73°F (23°C); ASTM D4226
Izod Impact, Notched	6.3 J/cm	11.8 ft-lb/in	Method A, Injection Molded, 0.125 in bars, 73°F (23°C); ASTM D256
Izod Impact, Notched	7.21 J/cm	13.5 ft-lb/in	Method A, With Grain - Comp. Molded, 0.125 in bars, 73°F (23°C); ASTM D256
Izod Impact, Notched	8.76 J/cm	16.4 ft-lb/in	Method A, Against Grain - Comp. Molded, 0.125 in bars, 73°F (23°C); ASTM D256

Thermal Properties

CTE, linear 68°F	72.9 µm/m-°C	40.5 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	67.8 °C	154 °F	Unannealed, 0.125 in bars; ASTM D648
Flammability, UL94	V-0	V-0	All Colors; 0.035 in.
Flammability, UL94	V-0	V-0	5VA, All Colors; 0.118 in.

Processing Properties

Melt Temperature	188 - 204 °C	370 - 400 °F	Extrusion
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Descriptive Properties

Cell Classification D1784	15343	ASTM D1784
Cell Classification D4216	14133223	ASTM D4216

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